

## Detailed Meeting Program of EMN Kuala Lumpur Meeting 2016

\*Including the *EMN Meeting on Metallic Glasses* and *EMN Meeting on Surface and Interface*

<b>Tuesday Sept. 13</b>		
<b>Room A</b>		
8:30-8:40AM	Opening Ceremony for EMN Meeting on Metallic Glasses	
<b>Session: Metallic Glasses General I Chair: Paul Voyles</b>		
8:40-9:05AM	A01: In-situ experiments revealing a structural transition in bulk glass forming metallic liquids	<b>Andreas Meyer</b> Institute of Materials Physics in Space, DLR, Germany
9:05-9:30AM	A02: Short-range order in metallic glasses via X-ray absorption spectroscopy	<b>Jerzy Antonowicz</b> Warsaw University of Technology, Poland
9:30-9:55AM	A03: Evaluation of Biocompatible Ti-Based Bulk Metallic Glasses	<b>Guoqiang Xie</b> Tohoku University, Japan
9:55-10:10AM	Session Break	
<b>Session: Metallic Glasses General II Chair: Andreas Meyer</b>		
10:10-10:35AM	A04: Medium-Range Structure and Glass-forming Ability of Zr-based Bulk Metallic Glasses	<b>Paul Voyles</b> University of Wisconsin-Madison, USA
10:35-11:00AM	A05: Dynamics of metallic glass-forming melts dominated by chemical interactions	<b>Fan Yang</b> Institute of Materials Physics in Space, DLR, Germany
11:00-11:25AM	A06: The Application of Metallic Glass Fibers in Future Hydrogel-based Scaffolds	<b>Ramin Banan Sadeghian</b> Tohoku University, Japan
11:25-13:50PM Lunch Break		

13:50-14:00PM	Opening Ceremony for EMN Meeting on Surface and Interface	
<b>Session: Surfaces and Interfaces of Oxides    Chair: Carsten Busse</b>		
14:00-14:30PM	A07: Surface Science of Perovskites and Oxide Quasicrystals <b>(Keynote)</b>	<b>Wolf Widdra</b> Martin-Luther-Universität Halle-Wittenberg, Germany
14:30-15:00PM	A08: Engineering polarons on an oxide surface <b>(Keynote)</b>	<b>Geoff Thornton</b> University College London, UK
15:00-15:25PM	A09: Structural and electronic properties of the Indiumoxide(111) surface	<b>Holger Eisele</b> Institut für Festkörperphysik, Germany
15:25-15:40PM	Session Break	
15:40-16:05PM	A10: Structural Properties of Oxide Surfaces and their Influence on the Ice nucleation Ability of Atmospheric Aerosol Particles and Hence the Climate Change	<b>Ahmed Abdelmonem</b> Karlsruhe Institute of Technology (KIT), Germany
16:05-16:30PM	A11: Non-contact electrical characterization of dielectric surfaces and interfaces on semiconductor materials	<b>Andrew Findlay</b> Semilab SDI, USA
16:30-16:55PM	A12: Dielectric oxide nanoengineering and its impact on the surface passivation and interface properties of crystalline silicon	<b>Hyunju Lee</b> Toyota Technological Institute, Japan

<b>Wednesday Sept. 14</b>		
<b>Room A</b>		
7:40-8:40AM	Breakfast	
<b>Session: Metallic Glasses General III Chair: Jerzy Antonowicz</b>		
8:40-9:05AM	A13: Shear Bands in Metallic Glasses	<b>Gerhard Wilde</b> University of Münster, Germany
9:05-9:30AM	A14: Crystallization and corrosion in Fe-based amorphous alloys	<b>Jazmin Duarte-Correa</b> Max-Planck-Institut für Eisenforschung GmbH, Germany
9:30-9:55AM	A15: Rejuvenation of metallic glasses by thermal cycling	<b>Sergey Ketov</b> Tohoku University, Japan
9:55-10:20AM	A16: High pressure induced rejuvenation in metallic glasses	<b>Xiaohui Yu</b> Institute of Physics, CAS, China
10:20-10:35AM	Session Break	
<b>Session: 2D materials: graphene and beyond Chair: Geoff Thornton</b>		
10:35-11:00AM	A17: Precise structure determination of 2D materials using STM and XSW	<b>Carsten Busse</b> University Munster, Germany
11:00-11:25AM	A18: Looking at 2D materials with synchrotron radiation	<b>Silvano Lizzit</b> Elettra Sincrotrone Trieste, Italy
11:25-11:50AM	A19: Twin-grain boundaries in MoSe <sub>2</sub>	<b>Matthias Batzill</b> University of South Florida, USA
11:50-13:50PM Lunch Break		

<b>Session: Metallic Glasses General IV Chair: Eloi Pineda</b>		
13:50-14:15PM	A20: Metal Melts of Nanocrystalline Soft Magnetic Alloys	<b>Vladimir Tsepelev</b> Boris Yeltzin Ural Federal University, Russia
14:15-14:40PM	A21: Superconductivity of Rare-Earth Ruthenium Amorphous Alloys	<b>Yusuke Amakai</b> Muroran Insitute of Technology, Japan
14:40-15:05PM	A22: Atomic structure, thermal behavior and magnetic properties of cobalt-based metallic Glasses	<b>Amir Taghvaei</b> Shiraz University of Technology, Iran
15:05-15:30PM	A23: Electron-Phonon interactions in Two-Dimensional Electronic States at the H-dosed ZnO Surface	<b>Ryu Yukawa</b> High Energy Accelerator Research Organization (KEK), Japan
15:30-15:45PM	Session Break	
<b>Session: Metallic Glasses General V Chair: Vladimir Tsepelev</b>		
15:45-16:10PM	A24: Modeling of the sub-Tg relaxation spectrum of metallic glasses	<b>Eloi Pineda</b> Universitat Poilit ècnica de Catalunya, Spain
16:10-16:35PM	A25: Nanolamellar structures combining amorphous and crystalline phases: A way to improve strength and ductility	<b>Timo Müller</b> Erich-Schmid Institute of Materials Science, Austrian Academy of Sciences, Austria
16:35-17:00PM	A26: Study of the deformation behavior of amorphous/crystalline metal laminated composites using molecular dynamics simulation	<b>Lei Zhao</b> The Hong Kong Polytechnic University, Hong Kong

<b>Thursday Sept. 15</b>		
<b>Room A</b>		
7:40-8:40AM	Breakfast	
<b>Session: Metallic Glasses General VI Chair: Keith K.C. Chan</b>		
8:40-9:05AM	A27: Cooling Rates Effects on Porosity Formation	<b>Peng-Sheng Wei</b> National Sun Yat-Sen University, Taiwan
9:05-9:30AM	A28: Polyamorphism in a main group metallic glass	<b>Hongbo Lou</b> Center for High Pressure Science & Technology Advanced Research, China
9:30-9:55AM	A29: New bulk metallic composites generated by sever plastic deformation	<b>Lisa Kraemer</b> Erich-Schmid Institute of Materials Science, Austrian Academy of Science, Austria
9:55-10:10AM	Session Break	
<b>Session: Metallic Glasses General VII Chair: Peng-Sheng Wei</b>		
10:10-10:35AM	A30: Criticality of the serrated plastic flow in metallic glasses	<b>Keith K.C. Chan</b> The Hong Kong Polytechnic University, Hong Kong
10:35-11:00AM	A31: Short-range order and atomic dynamics in glass-forming alloy melts	<b>Dirk Holland-Moritz</b> Institute of Materials Physics in Space, DLR, Germany
11:00-11:25AM	A32: Super-high strength aluminum alloys from metallic glassy precursors	<b>Zhi Wang</b> Tohoku University, Japan
11:25-13:30PM Lunch Break		

<b>Session: Applied Materials and Interfaces Chair: Matthias Batzill</b>		
13:30-13:55PM	A33: Effects of Thermal Convection on Surface Roughness after Solidification	<b>Peng-Sheng Wei</b> National Sun Yat-Sen University, Taiwan
13:55-14:20PM	A34: The Formation, Structure and Mechanical properties of Nanoparticle Membrane	<b>Xiao-Min Lin</b> Argonne National Laboratory, USA
14:20-14:45PM	A35: Carbon-based Tribofilm Formation Promoted by Palm Methyl Ester	<b>Zahrul Fuadi</b> Syiah Kuala University, Indonesia
14:45-15:10PM	A36: Tribochemical Reaction and Tribofilm Formation on Friction-Activated Steel Surfaces	<b>Renguo Lu</b> Kansai University, Japan
15:10-15:25PM	Session Break	
15:25-15:50PM	A37: Liquid plasticine with interfacial nanoparticle jamming	<b>Xiao-Guang Li</b> Northwestern Polytechnical University, China
15:50-16:15PM	A38: The biological interface in bioelectrochemical systems	<b>Grzegorz Pasternak</b> University of Trento, Italy
16:15-16:40PM	A39: Damage accumulation and recovery in ion irradiated SiC/SiC composites	<b>Nihed Chaabane</b> CEA/INSTN – University Paris-Saclay, France
<b>Session: Semiconductor Interfaces Chair: Xiao-Guang Li</b>		
16:40-17:05PM	A40: Fabrication and characterization of Si/4H-SiC interfaces by surface activated bondings	<b>Jianbo Liang</b> Osaka City University, Japan
17:05-17:30PM	A41: Tailoring electronic structure of long range ordered on surface synthesized polymers	<b>Yannick Fagot-Revurat</b> Institute Jean Lamour, France